

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-042670

(43)Date of publication of application : 12.03.1983

(51)Int.Cl.

C09D 5/24
C09K 3/16
E04F 15/12

(21)Application number : 56-142138

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(22)Date of filing : 09.09.1981

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(54) ELECTRICALLY CONDUCTIVE COATED FLOOR AND ITS APPLICATION

(57)Abstract:

PURPOSE: To prepare an electrically conductive coated floor consisting of a normal temperature curing resin and graphite with a specified particle size and exhibiting an excellent electric conductivity and resistance to coming-off of graphite particles by abrasion without the need of surface polishing in the application.

CONSTITUTION: The electrically conductive coated floor is made from a mixt. of 100pts.wt. normal temperature curing resin (e.g. epoxy resin, polyurethane resin, unsatd. polyester resin or a modified product thereof) and 10W100pts.wt. graphite with a particle diameter of 150W5 mesh (the peak of particle size distribution is within the range of 150W5 mesh and particles of said size account for 50wt% or more). It has an excellent electrical conductivity, resists coming-off of graphite particles by abrasion, requires no surface polishing in the application and prevents firing and explosion due to electrostatic spark in places where an explosive gas is used.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]